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## CENTRAL INTELLIGENCE AGENCY

Office of Legislative Liaison Washington, D. C. 20505 Telephone: 351-6121 15 January 1985

Committee on Science and Technology TO: House of Representatives 2321 Rayburn House Office Building Washington, D.C. 20515

> Attention: Mr. John Holmfeld Science Policy Staff

Enclosed is a copy of a report you requested the Central Intelligence Agency to locate for you.

If I can be of further assistance, please call me.

Liaison Division

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## COMMITTEE OF SOVIET SICENTISTS FOR PEACE AGAINST NUCLEAR THREAT

STRATEGIC

AND INTERNATIONAL-POLITICAL CONSEQUENCES

OF CREATING A SPACE-BASED ANTI-MISSILE SYSTEM

USING DIRECTED ENERGY WEAPONS

Moscow 1984 This Report has been prepared by the Working Group of the Committee of Soviet Scientists for Peace, Against Nuclear Threat consisting of the Heads of Groups: Deputy Chairman of the Committee of Soviet Scientists, Academician R.Z. Sagdeyev (Director of the Institute of Space Research of the USSR Academy of Sciences), Deputy Chairman of the Committee of Soviet Scientists A.A. Kokoshin, D.Sc. (History), Deputy Director of the Institute of USA and Canada Studies of the USSR Academy of Sciences;

experts: A.G. Arbatov, D.Sc. (History), Sector Chief at the Institute of the World Economy and International Relations of the USSR Academy of Sciences; A.A. Vasilyev, Cand.Sc. (Technology), Department Chief at the Institute of USA and Canada Studies of the USSR Academy of Sciences; V.I. Shevchenko, D.Sc. (Physics and Mathematics), Deputy Director of the Institute of Space Research of the USSR Academy of Sciences; O.F. Prilutsky, Cand.Sc. (Physics and Mathematics), Department Head at the Institute of Space Research of the USSR Academy of Sciences; V.G. Rodin, Chief Project Designer of the same Institute; S.N. Rodionov, Cand.Sc. (Physics and Mathematics), Senior Research Associate of the Institute; and R.R. Nazirov, Cand.Sc. (Technology) Senior Research Associate of the Institute.

A mathematical model for studying the scientific and technical aspects of the issue under review (Appendix I) has been worked out by R.R.Nazirov.

In studying various problems linked with the subjects of the Report the Working Group used the services of consultants, Professor N.A.Lomov, Colonel-General, Rtd., and Professor M.A.Milshtein, Lieutenant-General, Rtd.

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THE NEW YORK TIMES, TUESDAY, JANUARY & 19

## Soviet Scientific Paper Calls U.S., Space-Based Defense Vulnerab

By SETH MYDANS Cycetal to The Mary Years Tienes

MOSCOW, Jon. 7 — A Soviet ocien-dific report says that the space-based defence system proposed by President Reagan would disturb the strategic balence, est off a chain reaction of counfőrmccours and ultimately make nucicar war more possible.

-The 42-page report, chained from Soviet sources, says much of the so-called "Star Wars" defease system appears technically feasible, though im-mensely costly. It easy that the testing and deployment of even parts of the system could complicate the prospects for future arms accords.

Mr. Reagan has said that the plan, known as the Strategic Defence initiative, is simed canceling out the threat of offencive missiles and thus making nuclear war obcolete. The program is a prime concern of the Soviet Union at the talks in Geneva between Secretary of State George P. Shultz and Foreign Rainistor Androi A. Gromyho.

Addressed to the West

The report, which was obtained in an English-kinguage version from the Recontain Institute on the United States and Canada, combines technical analyds and political argument.

It is unclear for whom the report was originally prepared, but the English-language version, which carries a smicment of copyright, appears aimed at a Western audience.

Rather than making nuclear war obsolete, it cays, the American plan "will certainly increase the danger of a first (pre-emptive) strike and the probability of making wrong decisions in a cricis cituation."

For that reason, it says, strategic stability would be diminished even though rough parity might be preserved in strategic armaments.

In addition, it says, "the deployment of strategic 'defensive weapons' is certain to set off a chain reaction in making more modern weapons systems."

This, it says, would make the strate-

of up to 100 seconds, plot their courdi-nates at an accuracy of 10 to the minus 7 rads and forecast the unoveneed of each target for the period necessary for

destruction," the report says.
"The deployment of the 18-station
Shame will require at least 126 shuttle micrious to polar orbit. It is noted that such a system is capable of destroying 15 missiles in 100 seconds (with the si-multaneus launching of ICBM's and two operating stations over the launch-

ing area)."
The Soviet scientists centend that such a space-based defense system would not be invulnerable, and the re-

bout here the compremenences that brounes arests selected by would be needed, thus intensifying the aithd Tece.

It cays that the proposed space stations could be put out of action by small bellistic missles, orbiting space miss, high-power ground-based

lasers, or cloude of chaff. Dummy missile invacings could mislead ins space weapoury, causing it to expend its stocks of fuel, the report gays, adding that it is precisely this vulcerebility that adds to the destabilizing nature of the system.

The report says that a program to counter the space system would

the our cut of second algebraic cut to our made galdem pare in arms agreements.

"Asymmetry may provide a considerable if we take into acceptential anti-Stram cycless." counter-anti-Unama system," tha

All of this, it acces, would pose as dangers to civilian populations.

"Improvemento in offendivo v one aimed at penetrating the defi will lend to a considerable increase potential convalties in the even war," the Soviet report cays.

ing more modern weapons systems."

This, it says, would make the strategic balance more complex and introduce a degree of uncertainty into political and military decision-making.

- First-Strike Potential Seen

The report says that versions of the space defense system now being discussed appear intended for use against ground targets as well as targets in space, and could therefore be employed for a first strike.

Using the acronym Sbams, for spacebased antimissile system, the report

says:

"We have reason to regard the prospective United States Shams as a mesins of insuring a first-strike capability. The assertions coming from the Reagan Administration that the new antimissile defense systems spell salvation from nuclear missiles for mankind are perhaps the greatest ever deception of our time."

The report, which is dated 1984, notes that the United States has declined to renounce first use of nuclear weapons. The text was prepared by a group calling, itself the Committee of Soviet Scientists for Peace, Against the Nuclear Threat, and is titled "A Space-Based Antimissile System With Directed Energy Weapons: Strategic, Legal and Political Implications."

Technical Aspects Described

The group was headed by Roald Z. Sagdeyev, director of the Space Research Institute of the Academy of Sciences, and Andrei A. Kokoshin, deputy director of the United States Institute.

Dr. Sagdeyev, 52 years old, is a magker physicist who has headed the space institute since its founding in 1973. Dr. Kokoshin, 39, combines foreign policy expertise with an engineering background, which he acquired at the Bauman Higher Technical School, the top Soviet engineering school.

Using published American information, the report describes scientific and technical details of the space-based defense system, in which, it says, "laser sy beam space weapons can hit a target thousands of kilometers away within about a hundredth of a second in which she latter can move fore just a few dozen meters."

The American plan is said to "envision 18 combat stations placed at three polar orbits with a hit range of approximately 5,000 kilometers."

"The Sbams should be able to track about 1,000 targets within a time limit